

CLAIMS

WHAT IS CLAIMED IS:

1. An airbag cushion comprising a coated fabric, wherein said fabric is coated with
an
elastomeric composition in an amount of at most 2.5 ounces per square yard of the
fabric; and wherein said airbag cushion exhibits a characteristic leak-down time after
inflation of at least 5 seconds.
2. The airbag cushion of Claim 1 wherein said elastomeric composition is silicone
free.
3. The airbag cushion of Claim 1 wherein said elastomeric composition comprises
polyurethane.
4. The airbag cushion of Claim 1 wherein said coated fabric is woven from
polyamide
yarns.
5. The airbag cushion of Claim 4 wherein said polyamide yarns are formed from
nylon 6,6 fiber.

6. The airbag cushion of Claim 4, wherein said polyamide yarns are multifilament yarns

characterized by a linear density of about 210-630 denier.

7. The airbag cushion of Claim 6, wherein wherein said multifilament yarns are characterized by a filament linear density of about 4 denier per filament or less.

8. The airbag cushion of Claim 1, wherein said elastomeric composition is present in the

form of water-borne or solvent-borne solution.

9. The airbag cushion of Claim 3, wherein said elastomeric polyurethane composition is

polycarbonate polyurethane.

10. The airbag cushion of Claim 1 wherein said elastomeric composition is coated on said

airbag fabric surface in an amount of at most 2.0 ounces per square yard.

11. The airbag cushion of Claim 10 wherein said elastomeric composition is coated on said

airbag fabric surface in an amount of at most 1.5 ounces per square yard.

12. The airbag cushion of Claim 11 wherein said elastomeric composition is coated on said airbag fabric surface in an amount of at most 1.2 ounces per square yard.

13. The airbag cushion of Claim 12 wherein said elastomeric composition is coated on said airbag fabric surface in an amount of at most 1.0 ounces per square yard.

14. The airbag cushion of Claim 13 wherein said elastomeric composition is coated on said airbag fabric surface in an amount of at most 0.8 ounces per square yard.

15. An airbag cushion comprising a coated fabric, wherein said fabric is coated with an elastomeric composition; wherein said elastomeric composition comprises at least one elastomer possessing a tensile strength of at least 1,500 and an elongation of at least 180%; and wherein said airbag cushion exhibits a leak-down time after inflation of at least 7 seconds.

16. The airbag cushion of Claim 15 wherein said elastomeric composition comprises polyurethane.

17. The airbag cushion of Claim 15 wherein said coated fabric is woven from

polyamide

yarns.

18. The airbag cushion of Claim 17 wherein said polyamide yarns are formed from nylon 6,6 fiber.

19. The airbag cushion of Claim 18, wherein said polyamide yarns are multifilament yarns characterized by a linear density of about 210-630 denier.

20. The airbag cushion of Claim 19, wherein said multifilament yarns are characterized by a filament linear density of about 4 denier per filament or less.

21. The airbag cushion of Claim 15, wherein said elastomeric composition is present in the form of a latex.

22. The airbag cushion of Claim 16, wherein said elastomeric polyurethane composition comprises polycarbonate polyurethane.

23. The airbag cushion of Claim 15 wherein said elastomer within said elastomeric composition is a polyurethane polycarbonate.

24. The airbag cushion of Claim 15 wherein said elastomeric composition is coated
on said

airbag fabric surface in an amount of at most 2.5 ounces per square yard.

25. The airbag cushion of Claim 24 wherein said elastomeric composition is coated
on said

airbag fabric surface in an amount of at most 2.0 ounces per square yard.

26. The airbag cushion of Claim 25 wherein said elastomeric composition is coated
on said

airbag fabric surface in an amount of at most 1.5 ounces per square yard.

27. The airbag cushion of Claim 26 wherein said elastomeric composition is coated
on said

airbag fabric surface in an amount of at most 1.2 ounces per square yard.

28. The airbag cushion of Claim 27 wherein said elastomeric composition is coated
on said

airbag fabric surface in an amount of at most 1.0 ounces per square yard.

29. The airbag cushion of Claim 28 wherein said elastomeric composition is coated
on said

airbag fabric surface in an amount of at most 0.8 ounces per square yard.

30. A coated side curtain airbag exhibiting a rolled packing volume factor of from about 18.8 to about 29; wherein said coated side curtain airbag exhibits a leak-down time after inflation of at least 5 seconds.

31. The airbag cushion of Claim 30 wherein said rolled packing volume factor is about 21.6.

32. An airbag cushion comprising a coated fabric, wherein said fabric is coated with an elastomeric composition; wherein said elastomeric composition comprises at least 80% non-silicone materials; and wherein said airbag cushion, before and after accelerated aging exposure, exhibits a characteristic leak-down time after inflation of at least 5 seconds.

33 The airbag of Claim 32, wherein said elastomeric composition comprises at least one polyurethane.

34 The airbag of Claim 33, wherein said polyurethane compound is a polycarbonate polyurethane.

35. The airbag of Claim 32, wherein the change in characteristic leak-down time

between the before-aged airbag and the aged airbag is less than about 50%.

36. The airbag of Claim 32, wherein the coating add-on weight of said elastomeric composition is at most 2.5 oz/yd².

37. The airbag of Claim 32, wherein said elastomeric composition comprises at least one non-silicone elastomer possessing a tensile strength of at 1,500 Psi.

38. The airbag of Claim 32 wherein said airbag possesses a sliding coefficient of friction of 0.7 or less.

39. The airbag of Claim 32, wherein said airbag possesses a packing volume factor of from about 18.8 to about 29.